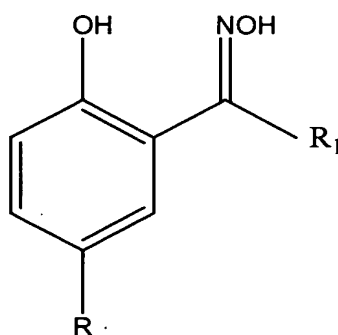


What is claimed is:

1. A method comprising extracting copper from an aqueous copper solution having a temperature of at least 30°C by contacting the aqueous solution with an extraction reagent of the formula (I)

5



(I)

wherein R is a linear or branched C<sub>10-18</sub> alkyl group and R<sub>1</sub> is H or CH<sub>3</sub>.

2. The method of claim 1 wherein the extraction reagent is further  
10 comprised of a hydrocarbon diluent.
3. The method of claim 1 wherein R is a linear or branched C<sub>10-18</sub> alkyl group and R<sub>1</sub> is H.
- 15 4. The method of claim 1 wherein R is a linear or branched C<sub>10-18</sub> alkyl group and R<sub>1</sub> is CH<sub>3</sub>.
5. The method of claim 1 wherein the extraction reagent is selected from the group consisting of 2-hydroxy-5-decylacetophenone oxime, 2-

hydroxy-5-dodecylacetophenone oxime, 2-hydroxy-5-pentadecylacetophenone oxime, 5-decylsalicylaldoxime, 5-dodecylsalicylaldoxime and 5-pentadecylsalicylaldoxime.

5    6.    The method of claim 5 wherein the extraction reagent is 5-dodecylsalicylaldoxime.

7.    The method of claim 5 wherein the extraction reagent is 2-hydroxy-5-dodecylacetophenone oxime.

10

8.    The method of claim 5 wherein the extraction reagent is 5-decylsalicylaldoxime.

9.    The method of claim 5 wherein the extraction reagent is 2-hydroxy-5-  
15    decylacetophenone oxime.

10.   The method of claim 5 wherein the extraction reagent is 2-hydroxy-5-pentadecylacetophenone oxime.

20    11.   The method of claim 5 wherein the extraction reagent is 5-pentadecylsalicylaldoxime.

12.   The method of claim 1 wherein the extraction reagent is further  
comprised of a modifier selected from the group consisting of an ester, a  
25    ketone, an ether and an alcohol.

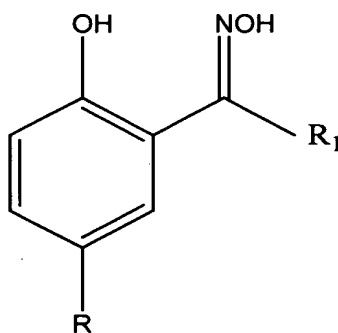
13. The method of claim 12 wherein the alcohol is tridecanol.

14. The method of claim 12 wherein the ester is 2,2,4-trimethylpentane-1,3-diol diisobutyrate, di-n-butyl adipate.

5

15. The method of claim 1 wherein the temperature is 35°C.

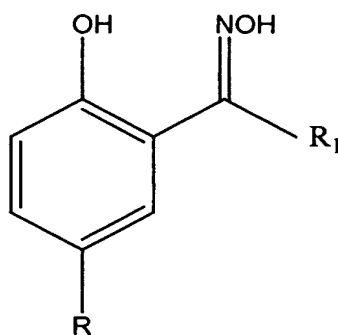
16. A method comprising extracting copper from an aqueous copper solution having a temperature of at least 30°C by contacting the aqueous  
10 solution with a composition comprising: (a) extraction reagent comprised of a compound of the formula (I)



(I)

wherein R is a dodecyl group and R<sub>1</sub> is H and (b) di-n-butyl adipate.

17. A method comprising extracting copper from an aqueous copper solution having a temperature of at least 30°C by contacting the aqueous solution with a composition comprising: (a) extraction reagent comprised of a compound of the formula (I)



(I)

5

wherein R is a nonyl group and R<sub>1</sub> is CH<sub>3</sub> and (b) di-n-butyl adipate.

18. The method of claim 16 wherein the temperature is 35°C.

10 19. The method of claim 17 wherein the temperature is 35°C.